| Index | of Cla | aims |  |
|-------|--------|------|--|
|       |        |      |  |

| Application No. | Applicant(s)    |  |
|-----------------|-----------------|--|
| 10/771,063      | CORO, CARLOS M. |  |
| Examiner        | Art Unit        |  |
| Susan D. Coe    | 1654            |  |

| √ | Rejected | ı | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed  | + | Restricted                     |

| i | N | Non-Elected  |
|---|---|--------------|
|   | ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| The color of the | e  | e               | ate               | D:        |  |   |   |          | aim      | Cla   |                    | F            |   | Date              |  | im I     | Cla      |              | - 1            |  | Α.       | Dot     |                     |          |              | m        | CI    |  |
|--|--|-----------------|-------------------|-----------|--|---|---|----------|----------|-------|--------------------|--------------|---|-------------------|--|----------|----------|--------------|----------------|--|----------|---------|---------------------|----------|--------------|----------|-------|--|
| 1   √   51   101   102   102   102   103   103   103   103   103   103   104   55   105   106   106   106   106   107   107   107   107   107   107   107   107   107   107   107   107   108   108   108   109   100   107   107   107   107   108   108   109   100   107   107   107   108   108   109   100   107   107   108   109   100   107   108   109   100   100   107   108   109   100 <td><math>\overline{1}</math></td> <td>Ť</td> <td>1</td> <td>Ť</td> <td>Г</td> <td></td> <td>_</td> <td></td> <td></td> <td>- 016</td> <td></td> <td><b>—</b>:</td> <td colspan="4"></td> <td></td> <td>:</td> <td colspan="7"></td> <td colspan="3"></td>   | $\overline{1}$                                   | Ť               | 1                 | Ť         | Г  |   | _ |          |          | - 016 |                    | <b>—</b> :   |   |                   |  |          |          | :            |                |  |          |         |                     |          |              |          |       |  |
| 102  |  |                 | !                 |           |  |   |   |          | Original | Final |                    | 100000       |   |                   |  | Original | Final    |              |                |  |          |         |                     |          | 2/23/05      | Original | Final |  |
| 102  |  | ╁┼              | $\dashv$          | +         | ┢  |   | _ | $\dashv$ | 101      |       | -                  | $\dashv$     | +   |                   | <del>                                     </del> | 51       |          |              | +              |  | $\vdash$ | +       | $\dashv$            | Н        | J            | 1        |       |  |
| Simple   S |  | ╁┼┼             | 十                 | +         | ┢  | _ | _ | $\neg$   |          | _     |                    | 1            |   | ++                | <del>                                     </del> |          |          |              | +              | <del></del>                                      | +        |         | -+                  | $\vdash$ |              |          |       |  |
| 104   105   105   106   106   107  |  | $\Box$          | ヿ                 | $\dagger$ |  | - |   |          |          |       |                    |              | 111   |                   |  |          |          |              | $\top$         | <u> </u>   | $\top$   |         | $\neg$              | Н        | $\mathbf{H}$ |          |       |  |
| S  |  | $\Box$          | ヿ                 | $\dagger$ |  |   |   |          |          |       |                    | $\Box$       |   |                   |  |          |          |              | 11             | <u> </u>   | $\top$   | _       | T                   | П        |              |          |       |  |
| 6   106     7   107     8   107     8   108     9   100     10   109     60   110     11   11     12   62     13   63     14   64     15   65     16   66     17   67     18   68     19   69     20   70     21   71     22   72     23   73     24   74     25   75     26   76     27   77     28   78     30   80     31   130     33   133     34   134     35   135     36   130     37   122     22   77     77   127     28   78     120   120     77   127 <td></td> <td><math>\Box</math></td> <td>寸</td> <td><math>\top</math></td> <td>Г</td> <td>_</td> <td>_</td> <td></td> <td>11</td> <td></td> <td></td> <td>.  </td> <td>T</td> <td>П</td> <td>u</td> <td></td> <td></td>  |  | $\Box$          | 寸                 | $\top$    | Г  | _ | _ |          |          |       |                    |              |   |                   |  |          |          |              | 11             |  |          | .       | T                   | П        | u            |          |       |  |
| S  |  | $\Box$          | ヿ                 | T         |  |   |   |          |          |       | 333                |              |   |                   |  | 56       |          |              | $\top$         |  |          |         |                     |          |              |          |       |  |
| S  |  |                 | $\Box$            |           |  |   |   |          |          |       | [                  |              |   |                   |  |          |          |              |                |  |          |         |                     |          | Т            | 7        |       |  |
| 10   V   |  |                 | $\Box$            |           |  |   |   |          |          |       |                    |              |   |                   |  |          |          |              |                |  |          |         |                     |          |              | 8        |       |  |
| 11   √   661   111   112   112   112   112   112   113   113   113   113   113   113   113   113   113   113   113   113   114   114   114   114   114   114   114   114   114   114   114   114   114   115   115   115   115   116   116   116   116   117   117   117   117   117   117   118   118   118   118   118   118   119   120   119   120   120   121   120   121   121   121   122   122   122   122   122   122   122   122   122   122   122   123   123   124   124   124   124   124   124   124   124   124   124   125   125   125   125   125   126   127   127   127   127   128   129   130   130   131   131   131   132   132   133<  |  | Ш               | $\Box$            |           |  |   |   |          |          |       |                    |              |   |                   |  |          |          |              |                |  |          |         |                     |          | 1            |          |       |  |
| 12   62   112   113   113   113   113   114   114   114   114   114   114   114   114   114   115   115   115   115   116   116   116   116   116   117   117   117   117   117   117   118   68   118   118   118   118   118   119   120   120   120   121   121   121   121   121   122   122   122   122   122   123   123   123   123   123   124   124   124   125   125   125   126   127   127   127   127   127   127   127   127   127   127   127   128   128   130   131   132   132   133   133   133   134   136   136   136<  |  | $\sqcup$        | $\perp$           | $\perp$   |  |   |   | $\Box$   |          |       |                    |              |   |                   |  |          |          |              | $oxed{oxed}$   |  |          |         |                     |          | _            |          |       |  |
| 13   14   64   113   114   114   115   116   115   115   115   115   115   115   115   115   115   116   116   117   116   116   117   117   117   118   118   118   118   118   118   118   119   119   119   120   120   120   121   121   121   121   122   122   122   122   122   122   122   122   123   123   123   124   124   124   124   124   125   126   126   127   127   127   127   127   127   127   127   127   127   127   127   128   128   129   130   130   131   131   131   131   131   131   131   131   133   133   133   133   133   133   133   133   134   134   134   134   134   134   135   135   135   135   135   136   136<  |  | $\sqcup$        | $\dashv$          | $\perp$   | _  |   |   |          |          |       |                    |              |   |                   | $\sqcup \sqcup \sqcup$                           |          |          |              | Ш              |  |          |         |                     |          | √            |          |       |  |
| 14   64   114   115     15   65   115   116     16   66   116   116     17   67   117   118     18   68   118   118     19   69   119   120     21   71   121   121     22   72   122   122     23   73   123   123     24   74   124   124     25   75   125   125     26   76   126   127     28   78   128   129     30   80   130   130     31   81   131   131     32   82   33   133   133     33   83   133   134     35   86   136   136     37   87   137   137     38   88   138   138     39   89   139   139     40   90   140   | ++++   | $\sqcup$        | $\dashv$          | $\perp$   | L  |   |   |          |          |       |                    | <u> </u>     | 1-1-  |                   | $\sqcup \downarrow \sqcup$                       |          |          |              | $\perp \perp$  | $\sqcup \!\!\! \perp$                            | $\sqcup$ |         | $\sqcup \downarrow$ | Ш        |              |          |       |  |
| 15     65     115     116     116     116     116     116     116     116     116     116     117     18     117     118     118     118     118     118     119     120     120     120     120     121     121     121     121     122     122     122     122     122     122     122     123     123     123     124     124     124     124     124     124     124     125     125     125     125     126     127     127     127     127     128     128     128     129     130     130     130     131     131     131     131     131     131     131     132     133     133     133     133     133     134     134     134     135     136     136     136     136     137     137     137     137     137     138     138     138     138     138     138     138     139     140   | +  | ₩               | _                 | $\perp$   | <u> </u>   |   |   |          |          |       | ×.                 |              | ++  | $\bot$            | $\sqcup \sqcup \sqcup$                           |          |          | ì            | 44             |  | _        |         | _                   | Ш        |              |          |       |  |
| 16   66   116     17   67   117     18   68   118     19   69   119     20   70   120     21   71   121     22   72   122     23   73   123     24   74   124     25   75   125     26   76   126     27   77   127     28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   141   | <del>                                     </del> | $\vdash$        | 4                 | +         | _  |   |   | _        |          |       | - 1                | <u> </u>     | <del>       </del>                                | -                 | $\vdash \vdash \vdash$                           |          |          |              | 4-4            | $\vdash \vdash$                                  | Н        |         |                     | $\vdash$ | _            |          |       |  |
| 17   18   66   117   118   118   118   118   118   118   119   120   120   120   120   120   120   120   120   120   121   121   121   121   121   122   122   122   123   123   123   123   123   123   123   124   124   124   124   124   125   125   126   126   126   126   126   127   127   127   127   127   128   128   129   129   130   130   130   130   131   131   132   132   132   132   132   132   132   133   133   133   133   133   133   134   134   134   135   136   136   136   137   138   138   138   139   139   139   139   139   140   141   141   141   141   141   141   141   141   141   141   141   141   141   141   141<  | <del>                                     </del> | $\vdash \vdash$ | $\dashv$          | +         | _  |   |   | _        |          |       |                    | $\Box$       | + + - +   | +                 | <del>                                     </del> |          |          |              | +              | $\vdash \vdash$                                  | $\vdash$ |         |                     | $\vdash$ | <u> </u>     |          |       |  |
| 18   68   118   118   119     20   70   120   120   120   121   121   121   121   121   121   122   122   122   123   123   123   123   124   124   124   124   124   125   125   125   126   127   127   127   127   127   127   127   128   128   129   130   130   130   130   131   131   131   131   131   132   133   133   133   133   133   133   133   134   134   135   136   136   136   137   136   137   137   137   138   138   138   138   139   140   140   140   141 </td <td>+++</td> <td><math>\vdash</math></td> <td><math>\dashv</math></td> <td>+</td> <td><math>\vdash</math></td> <td></td> <td></td> <td><math>\dashv</math></td> <td></td> <td></td> <td></td> <td>-</td> <td>++</td> <td></td> <td> - - </td> <td></td> <td><math>\dashv</math></td> <td></td> <td>+</td> <td><math>\vdash</math></td> <td>-</td> <td></td> <td><math>\dashv</math></td> <td>Н</td> <td>_</td> <td></td> <td></td>  | +++  | $\vdash$        | $\dashv$          | +         | $\vdash$   |   |   | $\dashv$ |          |       |                    | -            | ++  |                   | - -  |          | $\dashv$ |              | +              | $\vdash$   | -        |         | $\dashv$            | Н        | _            |          |       |  |
| 19   69   119     20   70   120     21   71   121     22   72   122     23   73   123     24   74   124     25   75   125     26   76   126     27   77   127     28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141  | +  | ╁┼              | $\dashv$          | +         | -  |   |   | $\dashv$ |          |       |                    |              | +++   |                   |  |          | -        |              | +              | <del>-  </del>                                   | +        | _       | -                   | Н        |              |          |       |  |
| 20     70     120       21     71     121       22     72     122       23     73     123       24     74     124       25     75     125       26     76     126       27     77     127       28     78     128       29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141  | +++  | ╂┼              | $\dashv$          | +         | -  |   |   | -        |          |       |                    | $\dashv$     | 1-1-1   |                   | <del></del>                                      |          |          |              | +              | <del>-  -</del>                                  | +        | -       | +                   | Н        | _            |          |       |  |
| 21   71   121   122   122   122   123   123   123   123   123   124   124   124   124   124   125   125   125   125   125   126   127   127   127   127   127   127   127   127   127   128   128   128   128   128   129   129   130   130   130   130   131   131   131   131   131   131   132   132   132   132   132   133   133   133   133   133   133   133   133   134   134   134   134   135   135   135   136   136   137   137   137   137   137   138   138   138   138   139   140   140   140   141  | <del>                                     </del> | ╂┼┼             | -                 | +         | -  |   |   | $\dashv$ |          | _     | - }                | Η.           | 1 1 1   | +                 | <del>     </del>                                 |          |          |              | +              | $\vdash$   | +        |         |                     | $\vdash$ | -            |          |       |  |
| 22     72     122     123       24     74     124     124       25     75     125     125       26     76     126     126       27     77     127     127       28     78     128     128       29     79     129     129       30     80     130     131       31     81     131     131       32     82     132     132       33     83     133     134       35     85     135     135       36     86     136     137       38     88     138     138       39     89     139     139       40     90     140     141  | <del> -  -  -  </del>                            | ╀               | $\dashv$          | +         | $\vdash$   |   | _ | -        |          | -     | *                  |              | <del>                                     </del>  |                   | <del>                                     </del> |          |          |              | ╂═╣            | $\vdash$   | +        | +       |                     | Н        | -            |          |       |  |
| 23   73   123     24   74   124     25   75   125     26   76   126     27   77   127     28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141  | +++  | $\vdash$        | $\dashv$          | +         | ┢  |   |   |          |          |       | -                  |              | + + + +   | ++                |  |          |          |              | ┽┥             |  | +        | +       | +                   | H        | _            |          |       |  |
| 24   124   124   125   125   125   126   126   126   126   127   127   127   127   127   127   128   128   128   128   129   129   129   130   130   131   131   131   131   131   132   132   132   132   133   133   133   133   133   133   133   134   134   134   134   134   134   134   135   135   135   136   136   137   137   137   137   138   139   139   140   140   140   141   14  |  | $\vdash$        | $\dashv$          | +         | ┢  |   |   | $\dashv$ |          | -     |                    | $\dashv$     | + + +   | -+ +-             | ╂═┼═┤  |          |          |              | +              | $\vdash$   | +        | +       | $\dashv$            | Н        | -            |          |       |  |
| 25     75     125     126       27     77     127     127       28     78     128     129       30     80     130     130       31     81     131     131       32     82     132     132       33     83     133     134       35     85     135     135       36     86     136     136       37     87     137     137       38     88     138     139       40     90     140     141  |  | $\vdash$        | $\dashv$          | +         | <del>                                     </del> |   |   |          |          |       | ŀ                  | -            | <del>                                      </del> |                   |  |          |          |              |                | -  | +        | -       | $\dashv$            | Н        |              |          |       |  |
| 26   76   126     27   77   127     28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141  |  | $\vdash$        | $\dashv$          | +         | $\vdash$   |   |   | $\neg$   |          |       |                    |              | 111   | -1-1-             |  |          |          |              | +              |  | $\vdash$ | +       | $\dashv$            | Н        | _            |          |       |  |
| 27     127       28     78       29     79       30     80       31     81       32     82       33     132       33     133       34     84       35     85       36     86       37     87       38     138       39     89       40     90       41     91  |  | $\vdash$        | $\dashv$          | +         | <u> </u>   |   | _ | $\dashv$ |          |       |                    | -            | 111   | 11                |  |          |          |              |                |  | T        | +       |                     |          |              |          |       |  |
| 28     78     128       29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141  |  | $\vdash$        | $\neg$            | 十         |  |   |   |          |          |       |                    | 1:           |   | 1                 |  |          |          |              | 11             |  | $\Box$   |         | $\dashv$            |          | -            |          |       |  |
| 29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141  |  | $\Box$          | ヿ                 | 1         | Г  |   | _ |          |          |       | 2373               |              |   |                   |  |          |          |              |                |  | Ħ        |         |                     |          |              |          |       |  |
| 31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91  |  | П               | T                 | T         |  |   |   |          | 129      |       |                    |              |   |                   |  |          |          |              |                |  | T        |         |                     |          |              |          |       |  |
| 32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91  |  | П               | П                 | T         |  |   |   |          |          |       |                    |              |   |                   |  |          |          |              |                |  | T        | $\neg$  |                     |          |              |          |       |  |
| 33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141  |  |                 | $\Box$            | T         |  |   |   |          | 131      |       |                    |              |   |                   |  | 81       |          |              |                |  | П        |         |                     |          |              |          |       |  |
| 34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141  |  | $\Box$          | $oldsymbol{\bot}$ | $\prod$   |  |   |   |          |          |       | cost               |              |   |                   |  |          |          | [            |                |  |          |         |                     |          |              |          |       |  |
| 35 85   36 86   37 87   38 88   39 89   40 90   41 91  | $\Box$   | $\sqcup$        | $ \bot $          |           | <u> </u>   |   |   |          |          |       |                    | Ш            | <u>                                     </u>      | $\bot$            | $\coprod$  |          |          |              |                |  | $\Box$   |         | $\Box$              |          |              |          |       |  |
| 36 86   37 87   38 88   39 89   40 90   41 91  | $\square$  | ⇊               | _                 | 1         | <u>_</u>   |   |   |          | 134      |       |                    | <u> </u>     | <del>                                     </del>  |                   |  |          |          |              | ota            |  | Ш        |         |                     | Ш        |              |          |       |  |
| 37 87 137   38 88 138   39 89 139   40 90 140   41 91 141  | +  | $\sqcup$        | 4                 | 1         | _  |   |   |          |          |       |                    |              | +++   | $\bot$            | $\sqcup \sqcup$                                  |          |          |              | 44             | <u> </u>   | $\sqcup$ |         | $\sqcup$            | Ш        |              |          |       |  |
| 38 88   39 89   40 90   41 91  | ++++   | $\sqcup$        | 4                 | 1         | _  |   |   | _        |          |       |                    | Щ.           | <del>                                     </del>  | +                 | $\sqcup \sqcup$                                  |          |          |              | $\perp$        | $oxed{oxed}$                                     | $\perp$  | $\perp$ | $\sqcup$            | Щ        |              |          |       |  |
| 39   | <del>                                     </del> | ₩               | $\dashv$          | +         | <u> </u>   |   |   | 4        |          |       |                    | <u> </u>     | +++   | $\dashv$          |  |          |          |              | $\perp$        | $\vdash \vdash$                                  | $\vdash$ | - -     | $\sqcup$            | Ш        |              |          |       |  |
| 40   | <del>                                     </del> | $\vdash$        | 4                 | +         | _  |   |   | _        |          |       | -                  | $\Box$       | <del>   </del> -                                  | +                 | - -  |          |          |              | +              | $\vdash \vdash$                                  | $\vdash$ | +       |                     |          |              |          |       |  |
| 41 91 141 141  | <del>                                     </del> | ₩               | $\dashv$          | +         | <u> </u>   |   |   | -        | 139      |       |                    | <del> </del> | ┾┼┼   | +                 | ╀┼┼  |          |          |              | +              | $\vdash$   | $\vdash$ | -       | -+                  |          |              |          |       |  |
|  | ╁┼┼┼   | ++              | $\dashv$          | +         | -  |   |   |          | 140      |       |                    | -            | <del>     </del> -                                | +                 | <del>                                     </del> | 90       |          |              | +              |  | $\vdash$ | +       | $\vdash$            | $\vdash$ |              | 40       |       |  |
|  | <del>                                     </del> | ++              | $\dashv$          | +         | -  |   |   | $\dashv$ | 142      |       |                    | $H^{1}$      | +++   |                   | +++  | 91       |          | }            | +              | $\vdash$   | $\vdash$ | +       | $\dashv$            | $\vdash$ | _            |          |       |  |
| 142  | <del>                                     </del> | ++              | $\dashv$          | +         | ├  | - | _ |          |          |       | }                  | H            | +++   | ++                | $\vdash\vdash\vdash$                             |          |          | · 1          | +              | $\vdash$   | $\vdash$ | +       | $\dashv$            | Н        | <u> </u>     |          | -     |  |
| 43 94 144 144  | <del> - - </del>                                 | +-+             | $\dashv$          | +         | $\vdash$   |   | _ | $\dashv$ |          | -     | :::                | $\dashv$     | +-+-  |                   | <del>                                     </del> | 93       | -        | - II         | +              |  | $\vdash$ |         | -                   | -        | _            |          |       |  |
| 44 95 145 145  | <del>                                     </del> | +               | $\dashv$          | +         | -  | _ | _ |          |          |       | 1                  | <u>H:</u>    | +-++  |                   | ╀┼┼  |          |          | - }          | +              | $\vdash \vdash$                                  | $\vdash$ |         | $\dashv$            | $\vdash$ | -            |          |       |  |
| 45 96 146 146  | <del>           </del>                           | <del>   </del>  | $\dashv$          | +         | $\vdash$   | - | _ | $\dashv$ |          |       | : ::- <del> </del> | -            | + + +   |                   | ╂═┼═┤  |          |          | ::: <b> </b> | +              |  | +        |         | +                   |          | _            |          | -     |  |
| 47 97 147  | <del>                                     </del> | +               | $\dashv$          | +         | $\vdash$   |   | - | $\dashv$ |          |       | _ }                | H            | ╁┼┼   | ++                | <del>                                     </del> |          |          | :-}          | $\dashv\dashv$ |  | $\vdash$ |         | $\dashv$            | Н        |              |          |       |  |
| 48 98 148  | <del>                                     </del> | $\vdash$        | $\dashv$          | +         | $\vdash$   |   |   | -        | 148      |       |                    | Η,           | <del>     </del>                                  | ++                | $\vdash$   | 98       | $\dashv$ |              | +              | <del>                                     </del> | $\vdash$ | +       | +                   | $\vdash$ | _            |          |       |  |
| 49 99 149  |  | $\vdash$        | $\dashv$          | +         | $\vdash$   |   |   |          |          | -+    |                    | $\dashv$     | <del>       </del>                                | <del>- - </del> - |  | 99       |          | 1            | +              | -  | +        |         | $\dashv$            |          | -            |          |       |  |
| 50 100 150   | <del>           </del>                           | +               | $\dashv$          | +         | -  | _ |   | $\neg$   | 150      |       | ŀ                  | $\dashv$     | <del>       </del>                                |                   | <del>     </del>                                 | 100      |          | .            | +              | $\vdash$   | $\vdash$ | +       | $\dashv$            | $\vdash$ |              | 50       |       |  |